

Title (en)

Method for voltage regulation of switch mode power supplies implementing burst mode operation

Title (de)

Verfahren zur Spannungsregelung von Schaltmodusversorgungen mit Burst-Modus-Betrieb

Title (fr)

Procédé de régulation de la tension d'alimentations à découpage avec fonctionnement en mode rafales

Publication

EP 2717447 B1 20190227 (EN)

Application

EP 13004815 A 20131007

Priority

US 201213646571 A 20121005

Abstract (en)

[origin: EP2717447A2] Switching regulator methods and systems are provided for supplying output current at a regulated voltage level to a load. Upon determining that the output current is not below a predetermined current threshold, the regulator is operated in a continuous mode. The input voltage is monitored. If the input voltage is not below a first input threshold level, the system remains in continuous mode. Otherwise, the system enters a burst mode in which the switch mode power supply is turned OFF, thereby reducing transistor gate charge losses.

IPC 8 full level

H02M 3/156 (2006.01)

CPC (source: EP US)

H02J 7/35 (2013.01 - EP US); **H02M 3/156** (2013.01 - EP US); **H02M 1/0035** (2021.05 - EP US); **Y02B 70/10** (2013.01 - EP US)

Cited by

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DOCDB simple family (publication)

EP 2717447 A2 20140409; **EP 2717447 A3 20170111**; **EP 2717447 B1 20190227**; TW 201428444 A 20140716; TW I536136 B 20160601; US 2014097814 A1 20140410; US 9246383 B2 20160126

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